

FIG. 1

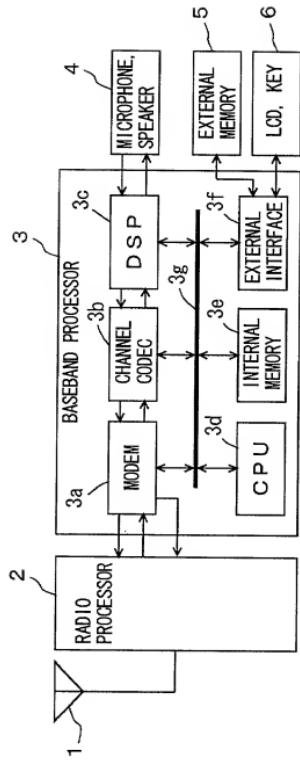


FIG. 2

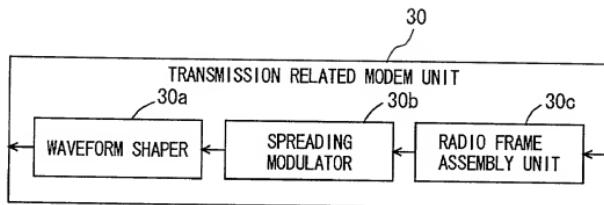


FIG. 3

$$\text{PERIOD INDEX :0} \quad [H_0] = [0]$$

$$\text{PERIOD INDEX :1} \quad [H_1] = \begin{bmatrix} H_0 & H_0 \\ H_0 & H_0 \end{bmatrix} = \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\text{PERIOD INDEX :2} \quad [H_2] = \begin{bmatrix} H_1 & H_1 \\ H_1 & H_1 \end{bmatrix} = \begin{bmatrix} 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 \end{bmatrix}$$

⋮ ⋮

$$\text{PERIOD INDEX :k} \quad [H_k] = \begin{bmatrix} H_{k-1} & H_{k-1} \\ H_{k-1} & H_{k-1} \end{bmatrix}$$

FIG. 4

		LOCATION NUMBER (C)															
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SEQUENCE NUMBER (B)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
	2	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	
	3	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	
	4	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	
	5	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	
	6	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	
	7	0	1	1	0	1	0	0	1	0	1	1	0	1	0	1	
	8	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
	9	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1	
	10	0	0	1	1	0	0	1	1	1	1	0	0	1	1	0	
	11	0	1	1	0	0	1	1	0	1	0	0	1	1	0	0	
	12	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	
	13	0	1	0	1	1	0	1	0	1	0	1	0	0	1	0	
	14	0	0	1	1	1	1	0	0	1	1	0	0	0	0	1	
	15	0	1	1	0	1	0	0	1	1	0	0	1	0	1	1	

FIG. 5

ELEMENT CODE $[H_1]$		LEAST SIGNIFICANT BIT OF LOCATION NUMBER	
(PERIOD INDEX $k = 0$)	0	0	1
(PERIOD INDEX $k = 1$)	0	0	0
(PERIOD INDEX $k = 2$)	1	0	1
(PERIOD INDEX $k = 3$)	1	0	1

F I G. 6

VALUES OF
SEQUENCE
NUMBER
EXCLUDING
LEAST
SIGNIFICANT
BIT

VALUES OF LOCATION NUMBER
EXCLUDING LEAST SIGNIFICANT BIT

	000	001	010	011	100	101	110	111
000	H ₁	H ₁	H ₁	H ₁	H ₁	H ₁	H ₁	H ₁
001	H ₁	H̄ ₁	H ₁	H̄ ₁	H ₁	H̄ ₁	H ₁	H̄ ₁
010	H ₁	H ₁	H̄ ₁	H̄ ₁	H ₁	H ₁	H̄ ₁	H̄ ₁
011	H ₁	H̄ ₁	H̄ ₁	H ₁	H ₁	H̄ ₁	H̄ ₁	H ₁
100	H ₁	H ₁	H ₁	H ₁	H̄ ₁	H̄ ₁	H ₁	H ₁
101	H ₁	H̄ ₁	H ₁	H̄ ₁	H ₁	H ₁	H̄ ₁	H ₁
110	H ₁	H ₁	H̄ ₁	H̄ ₁	H ₁	H̄ ₁	H ₁	H ₁
111	H ₁	H̄ ₁	H̄ ₁	H ₁	H ₁	H ₁	H ₁	H̄ ₁

F I G. 7

VALUES OF
SEQUENCE
NUMBER
EXCLUDING
LEAST
SIGNIFICANT
BIT

VALUES OF LOCATION NUMBER
EXCLUDING LEAST SIGNIFICANT BIT

	000	001	010	011	100	101	110	111
000	0	0	0	0	0	0	0	0
001	0	1	0	1	0	1	0	1
010	0	0	1	1	0	0	1	1
011	0	1	1	2	0	1	1	2
100	0	0	0	0	1	1	1	1
101	0	1	0	1	1	2	1	2
110	0	0	1	1	1	1	2	2
111	0	1	1	2	1	2	2	3

FIG. 8

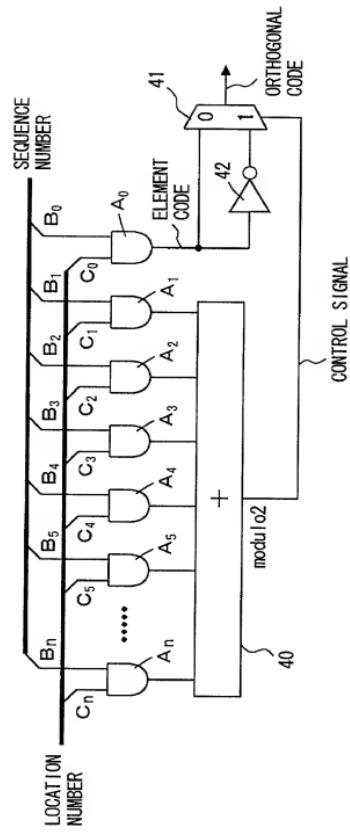
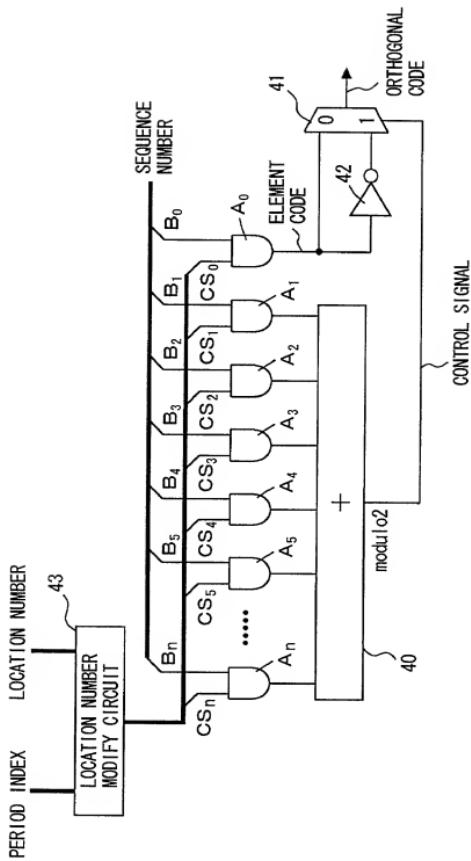


FIG. 9



F I G. 10

		LOCATION NUMBER (C)															
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SEQUENCE NUMBER (B)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	
	2	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	
	3	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	
	4	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	
	5	0	0	1	1	0	0	1	1	1	1	0	0	1	1	0	
	6	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	
	7	0	0	1	1	1	1	0	0	1	1	0	0	0	1	1	
	8	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
	9	0	1	0	1	0	1	0	1	1	0	1	0	1	0	1	
	10	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	
	11	0	1	0	1	1	0	1	0	1	0	1	0	0	1	0	
	12	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	
	13	0	1	1	0	0	1	1	0	1	0	0	1	1	0	0	
	14	0	1	1	0	1	0	0	1	0	1	1	0	1	0	0	
	15	0	1	1	0	1	0	0	1	1	0	0	1	0	1	1	

FIG. 11

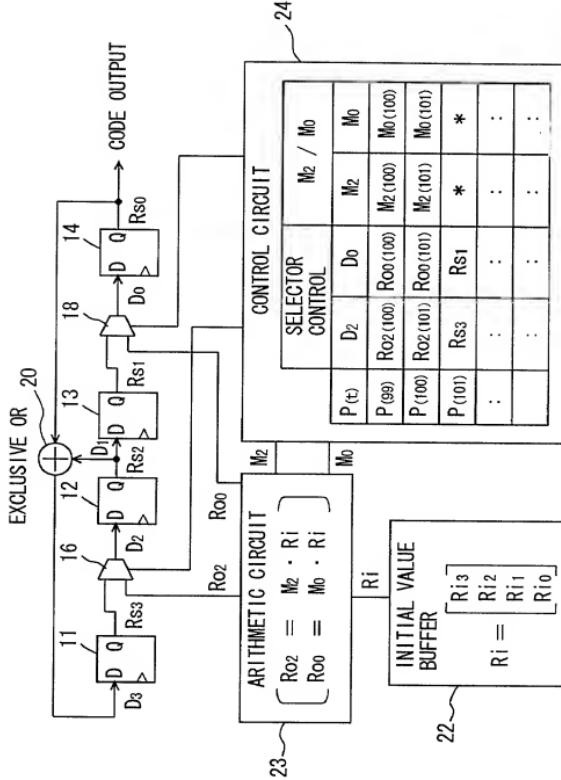


FIG. 12

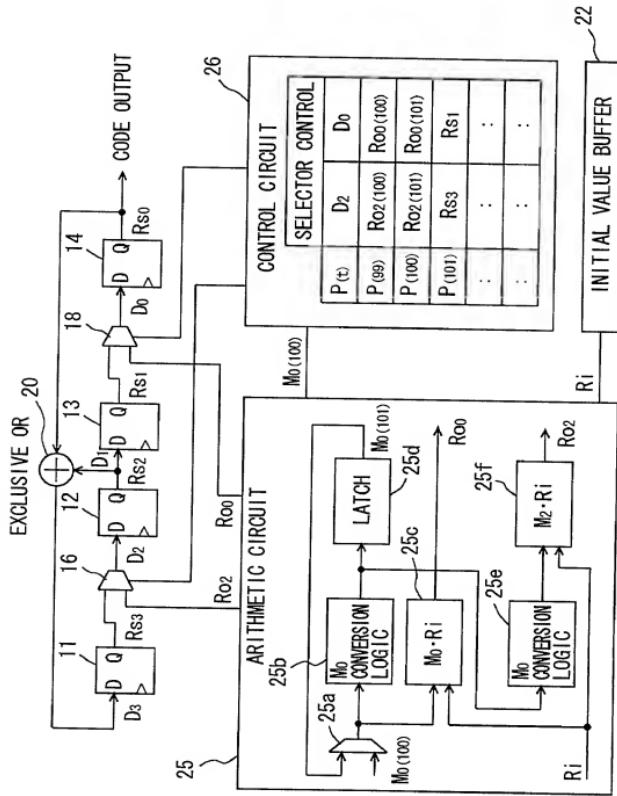
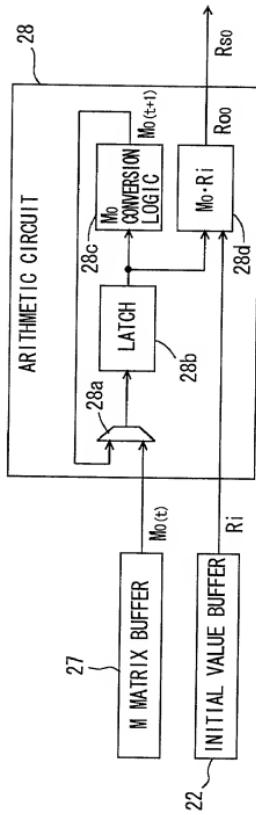


FIG. 13



F I G. 14 PRIOR ART

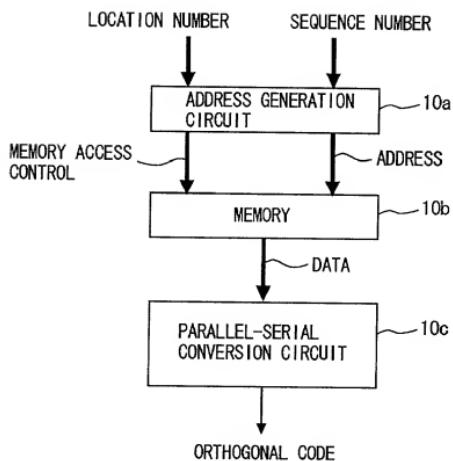


FIG. 15 PRIOR ART

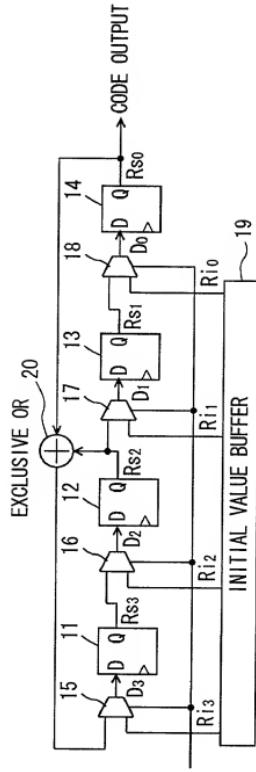


FIG. 16 PRIOR ART

